



2873 #4

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Gordon D. Ford

Serial No.: 09/960,629

Filed: September 21, 2001

Title: LENS FOCUSING DEVICE, SYSTEM
AND METHOD FOR USE WITH
MULTIPLE WAVELENGTHS

By the Examiner:

Group Art Unit: 2873

Applied Science Fiction, Inc.
8920 Business Park Drive
Austin, Texas 78759

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Assistant Commissioner for Patents
Washington, D.C. 20231

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Date of Mailing: February 4, 2002

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Assistant Commissioner for Patents
Washington, D.C. 20231

Martha Rocha

Print Name

Signature

Dear Sir:

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-identified application for patent are the
following documents:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. Copies of references.

No fee is due.

PATENT

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Simon, Galasso & Frantz PLC Deposit Account No. 50-1259.

RESPECTFULLY SUBMITTED,
Gordon D. Ford

By: Raymond M. Galasso
Raymond M. Galasso
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INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith patents, publications or other information of which he is aware, which he believes may be material to the patentability of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

PATENT

In accordance with 37 CFR 1.97(g) the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists.

The attached form, PTO-1449, provides a listing of patents, publications, or other information as required by 37 CFR 1.98(a)(1).

A copy of each of these items on PTO-1449 is supplied herewith.

RESPECTFULLY SUBMITTED,
Gordon D. Ford

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FORM PTO 3449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET APPLICANT FILING DATE FOR: LENS FOCUSING DEVICE, SYSTEM AND METHOD FOR USE WITH MULTIPLE WAVELENGTHS	ASF00069 Gordon D. Ford Sep. 21, 2001 GROUP	SERIAL NO. 09/960629 2873
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UNITED STATES LETTERS PATENT

DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS
	4	2	6	0	8	9	9	Apr. 7, 1981	Baker	250	563
	4	3	0	1	4	6	9	Nov. 17, 1981	Modeen et al.	358	75
	4	3	0	2	1	0	8	Nov. 24, 1981	Timson	356	359
	4	4	6	2	8	6	0	Jul. 31, 1984	Szmanda	156	626
	4	6	7	0	7	7	9	Jun. 2, 1987	Nagano	358	75
	4	6	7	7	4	6	5	Jun. 30, 1987	Alkofer	358	80
	4	6	8	0	6	3	8	Jul. 14, 1987	Childs	358	214
	4	7	0	0	2	2	9	Oct. 13, 1987	Herrmann et al.	358	166
	4	7	7	5	2	3	8	Oct. 4, 1988	Weber	356	431
	4	7	9	6	0	6	1	Jan. 3, 1989	Ikeda et al.	355	73
	4	8	4	5	5	5	1	Jul. 4, 1989	Matsumoto	358	80
	4	9	3	3	5	6	6	Jun. 12, 1990	Masaaki et al.	250	563
	4	9	3	7	7	2	0	Jun. 26, 1990	Kirchberg	363	41
	4	9	6	9	0	4	5	Nov. 6, 1990	Haruki et al.	358	228
	4	9	7	2	0	9	1	Nov. 20, 1990	Cielo et al.	250	562
	4	9	8	9	9	7	3	Feb. 5, 1991	Noso et al.	356	239
	4	9	9	4	9	1	8	Feb. 19, 1991	Lingemann	358	214
	5	0	0	3	3	7	9	Mar. 26, 1991	Moore, Jr. et al.	358	54
	5	0	1	0	4	0	1	Apr. 23, 1991	Murakami et al.	358	136

FOREIGN PATENT DOCUMENTS

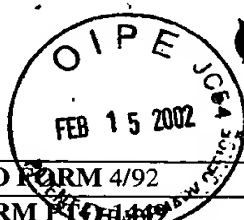
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	WO 84/02019				May 25, 1984	PCT	G06F 15/20
	WO 89/06890				Jul. 27, 1989	PCT	H04N 3/36
	WO 90/01240				Feb. 8, 1990	PCT	H04N 1/40
	WO 91/09493				Jun. 27, 1991	PCT	H04N 5/127
	WO 92/05469				Apr. 2, 1992	PCT	G03B 27/53
	WO 95/15530				Jun. 8, 1995	PCT	G06F 17/14
	WO 97/16028				May 1, 1997	PCT	H04N 7/30

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

		<i>New Adaptive Vector Filter Based on Noise Estimate</i> , Mei Yu, et al., IEICE Trans Fundamentals, Vol. E82, No. 6, June, 1999.
		<i>A Robust Method for Parameter Estimation of Signal-Dependent Noise Models in Digital Images</i> , B. Aiazzi, et al., IEEE, 1997, pp. DSP 97 - 601-604.
		<i>A Regularized Iterative Image Restoration Algorithm</i> , Aggelos K. Katsaggelos, et al., IEEE, 1991, pp. 914-929.
		<i>Adaptive Fourier Threshold Filtering: A Method to Reduce Noise and Incoherent Artifacts in High Resolution Cardiac Images</i> , M. Doyle, et al., 8306 Magnetic Resonance in Medicine, May, 31, 1994, No. 5, Baltimore, MD., pp. 546-550
		<i>Anisotropic Spectral Magnitude Estimation Filters for Noise Reduction and Image Enhancement</i> , Til Aach, et al., IEEE, 1996, pp. 335-338.
		<i>Adaptive-neighborhood filtering of images corrupted by signal-dependent noise</i> , Rangaraj M. Rangayyan et al., Applied Optics, Vol. 37, No. 20, July 10, 1998, pp. 4477-4487.

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

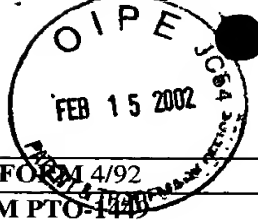


PTO FORM 4/92										Page 2 of 4			
FORM PTO-1449										ATTY. DOCKET	ASF00069	SERIAL NO.	09/960629
LIST OF PATENTS AND PUBLICATIONS										APPLICANT	Gordon D. Ford et al		
FOR APPLICANT'S INFORMATION										FILING DATE	Sep. 21, 2001	GROUP	2873
DISCLOSURE STATEMENT										FOR: LENS FOCUSING DEVICE, SYSTEM AND METHOD FOR USE WITH MULTIPLE WAVELENGTHS			
UNITED STATES LETTERS PATENT													
		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	
		5	0	4	7	9	6	8	Sep. 10, 1991	Carrington et al.	364	574	
		5	0	5	8	9	8	2	Oct. 22, 1991	Katzir	385	33	
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		5	2	6	6	8	0	5	Nov. 30, 1993	Edgar	250	330	
		5	2	9	1	2	8	6	Mar. 1, 1994	Murakami et al.	348	469	
		5	2	6	7	0	3	0	Nov. 30, 1993	Giorgianni et al.	358	527	
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		5	3	3	5	0	8	6	Aug. 2, 1994	Kitamura	358	431	
		5	3	7	1	5	4	2	Dec. 6, 1994	Pauli et al.	348	262	
		5	4	4	7	8	1	1	Sep. 5, 1995	Buhr et al.	430	20	
		5	4	4	8	3	8	0	Sep. 5, 1995	Park	358	520	
		5	4	5	2	0	1	8	Sep. 19, 1995	Capitant et al.	348	651	
		5	4	6	5	1	5	5	Nov. 7, 1995	Edgar	385	500	
		5	4	6	5	1	6	3	Nov. 7, 1995	Yoshihara et al.	358	444	
		5	4	7	7	3	4	5	Dec. 19, 1995	Tse	358	500	
		5	5	0	9	0	8	6	Apr. 16, 1996	Edgar et al.	382	167	
		5	5	1	6	6	0	8	May 14, 1996	Hobbs et al.	430	30	
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	
		WO 98/31142							Jul. 16, 1998	PCT	H04N	5/253	
		WO 98/34397							Aug. 6, 1998	PCT	H04N		
		WO 99/40729							Aug. 12, 1999	PCT	H04N	9/11	
		WO 01/48694							Jul. 5, 2001	PCT	G06T	5/00	
		GB 2 283 633 A							May 10, 1995	United Kingdom	H04N	5/262	
		DE 28 21 868 A1							Nov. 22, 1979	Germany	G01N	21/32	
		DE 196 36 867 C1							Jan. 2, 1998	Germany	H04N	5/21	
OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)													
		<i>Grayscale Characteristics</i> , Photographic Negatives The Nature of Color Images, Digital Color Management, Giorgianni, et al., Jan. 1998, pp. 163-168.											
		<i>Digital Imaging Equipment White Papers</i> , Putting Damaged Film on Ice, A Technical Discussion of Advances in Digital Imaging, Nikon Corporation, http://www.nikonusa.com/reference/whitepapers/imaging/ditechdisc.html , Aug. 5, 1999.											
		<i>Local Cosine Transform – A Method for the Reduction of the Blocking Effect in JPEG</i> , Gil Aharoni, et al., Journal of Mathematical Imaging and Vision, 3, 7-38, 1993.											
		<i>Digital ICE</i> , Applied Science Fiction, Inc., http://www.asf.com/html/o_products/iceprod.html . Aug. 5, 1999.											
		<i>About Digital ICE Technology</i> , Applied Science Fiction, Inc., http://www.asf.com/html/o_products/icetech.html . Aug. 5, 1999.											
		<i>2-D Adaptive Volterra Filter for 2-D Nonlinear Channel Equalisation and Image Restoration</i> , J.N. Lin, et al., Electronic Letters, Vol. 28, No. 2, Jan. 16, 1992, pp. 180-182.											

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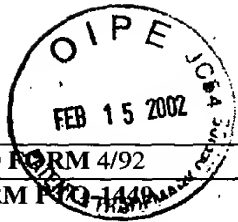


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										ATTY. DOCKET		ASF00069		SERIAL NO. 09/960629	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION										APPLICANT		Gordon D. Ford			
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UNITED STATES LETTERS PATENT															
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		5	5	5	2	9	0	4	Sep. 3, 1996	Ryoo et al.	358	518			
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		5	5	8	1	3	7	6	Dec. 3, 1996	Harrington	358	518			
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		5	5	8	9	8	8	7	Dec. 31, 1996	Wischermann	348	616			
		5	6	0	8	5	4	7	Mar. 4, 1997	Nakatani et al.	358	505			
		5	6	4	1	5	9	6	Jun 24, 1997	Gray et al.	430	21			
		5	6	6	6	4	4	3	Sep. 9, 1997	Kumashiro	382	266			
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		5	7	2	1	6	2	4	Feb. 24, 1998	Kumashiro et al.	358	450			
		5	7	6	2	7	7	3	Mar. 10, 1998	Mehlo et al.	358	474			
		5	7	2	9	6	3	1	Mar. 17, 1998	Wober et al.	382	232			
		5	7	7	1	1	0	7	Jun. 23, 1998	Fujimoto et al.	358	464			
		5	8	0	8	6	7	4	Sep. 15, 1998	Adams, Jr. et al.	348	273			
		5	8	9	2	5	9	5	Apr. 6, 1999	Yamakawa et al.	358	530			
		5	9	2	3	0	4	2	Jul. 13, 1999	Mietta et al.	250	559.06			
		5	9	3	0	3	8	8	Jul. 27, 1999	Murakami et al.	382	167			
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS			
		EP 1 547 811							Jun. 27, 1979	Europe	H04N	3/36			
		EP 0 422 220 A1							Apr. 17, 1991	Europe	A61B	6/03			
		EP 0 482 790 B1							Apr. 29, 1992	Europe	H04N	1/40			
		EP 0 527 097 A2							Feb. 10, 1993	Europe	H04N	1/40			
		EP 0 569 142 A1							Nov. 10, 1993	Europe	H04N	5/253			
		EP 0 624 848 A2							Nov. 17, 1994	Europe	G06F	15/68			
		EP 0 669 753 A2							Aug. 30, 1995	Europe	H04N	1/407			
		EP 0 716 538 A2							Jun. 12, 1996	Europe	H04N	1/50			
		EP 0 751 670 A2							Jan. 2, 1997	Europe	H04N	1/10			
		EP 0 768 621 A2							Apr. 16, 1997	Europe	G06T	5/20			
		EP 0 794 454 A2							Sep. 10, 1997	Europe	G03B	27/73			
		EP 0 816 833 A2							Jan. 7, 1998	Europe	G01N	21/88			
		EP 0 816 833 A3							Aug. 26, 1998	Europe	G01N	21/88			
		EP 0 893 914 A2							Jan. 27, 1999	Europe	H04N	5/253			
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		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		5	9	6	3	6	6	2	Oct. 5, 1999	Vachtsevanos et al.	382	150
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		5	9	8	2	9	5	1	Nov. 9, 1999	Katayama et al.	382	284
		5	9	6	9	3	7	2	Oct. 19, 1999	Stavely et al.	250	559.42
		5	9	7	9	0	1	1	Nov. 9, 1999	Miwawaki et al.	15	308
		5	9	9	1	4	4	4	Nov. 23, 1999	Burt et al.	382	232
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		6	0	7	5	9	0	5	Jun. 13, 2000	Herman et al.	382	284
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		6	1	0	1	2	7	3	Aug. 8, 2000	Matama	382	169
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		6	2	3	9	8	8	6	May 29, 2001	Klasser et al.	358	518

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		JP 11185028						Jul. 9, 1999	Japan	G06T	1/00
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		JP 2000-13604						Jan. 14, 2000	Japan	H04N	1/409
		JP 2000-196813A						Jul. 14, 2000	Japan	H04N	1/4

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